



## Waimanalo Update 1/25/11

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**Cell E6 Liner Repair:** Repairs to the eastern section of the Cell E6 liner continue. They placed and sealed the HDPE liner on 1/25 and plan to place the upper layers (geotextile, drainage layer, geotextile, ops layer) on 1/26. We anticipate receiving the CQA (construction quality assurance) engineer's report on Thursday.

**WWTP Temporary Storage:** Two of Oahu's three main wastewater treatment plants are managing with available resources, but the Hana Uli Uli plant near Barber's Point has very little indoor storage for biosolids (sewage sludge), and, hence, has been storing biosolids outdoors since early in the landfill shutdown period. The biosolids are the island's highest priority for waste disposal when the landfill re-opens. Biosolids are stored in a back part of the facility, where easy truck access will allow efficient transport of the waste when the landfill re-opens (WWTP1, pipe in foreground is unrelated to storage). Hana Uli Uli produces approximately 60 cubic yards of biosolids per day, and currently has approximately 440 cubic yards in the outdoor storage facility. The temporary storage consists of a layer of plastic, plywood, the waste, and then another plastic layer over the top (WWTP2). A narrow berm surrounds the waste. There are numerous flies, but no other vector issues, and the temporary storage area is located in an area with no public access. In a uniquely Hawaiian approach to odor control, WWTP staff are burning a local fragrant wood (Kaawe?) and have placed perfume-laced rags on the boundary fence (WWTP3)

**HPOWER Temporary Storage:** HPOWER is Oahu's waste-to-energy plant located in Campbell Industrial Park. HPOWER produces two waste streams that go to WGSL: ash and "residue." The ash is currently going to WGSL, since the ash monofill portion of WGSL was relatively unaffected by recent storms. The "residue" is sub 1" material (rocks, broken glass) that is normally disposed in the solid waste portion of the landfill. HPOWER has limited indoor storage for residue (Photo HPOWER residue, residue is on left, trash is on right). HPOWER has, to date, stockpiled the additional residue in 22 covered rolloff bins in the parking lot (Photo HPOWER rolloff). HPOWER has ordered 12 more roll-off bins, but that will likely only meet their needs for another two days or so. They are unlikely to obtain additional roll-off bins, which are a limited and highly prized item given current conditions. As a final back-up option, HPOWER plans to store residue outside against the wall of a building (Photo HPOWER ext storage). Plans are in place to cover the residue with plastic and limit runoff of particulates and water. Meanwhile, trucks continue to bring waste to HPOWER (Photo HPOWER trucks).



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WWTP3.jpg



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HPOWER ext  
storage.jpg



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HPOWER  
residue.jpg



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HPOWER  
rolloff.jpg



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HPOWER  
trucks.jpg



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WWTP1.jpg WWTP2.jpg

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